

Claims

1. Method for forming an encrypted message containing communication configuration data,

- in which an Internet-based authentication method is executed by using at least one service from a unit in a security layer or link control layer between a first communication unit and a second communication unit, so that at least one pair of cryptographic keys is formed for the first communication unit and for the second communication unit,
- in which the communication configuration data of the first communication unit is encrypted using at least one cryptographic key of the at least one pair of cryptographic keys, thus forming the encrypted message.

2. Method according to claim 1,

in which the Internet-based authentication method is based on an extensible authentication protocol method.

3. Method according to claim 1 or 2,

in which the communication configuration data is transmitted from the first communication unit to the second communication unit by using electronic messages according to the Internet-based authentication method.

4. Method according to one of the claims 1 to 3,

in which the communication configuration data is transmitted from the first communication unit to the second communication unit by using electronic messages according to one of the following Internet-based authentication methods:

- protected extensible authentication protocol method,
- extensible authentication protocol tunneled TLS

- authentication protocol method, or
- protocol for carrying authentication for network access method.

5. Method according to one of the claims 1 to 4, in which the first communication unit is a communication unit of a communication network element.

6. Method according to claim 5, in which the first communication unit is a communication unit of a communication network element in a mobile radio communication network.

7. Method according to one of the claims 1 to 6, in which the second communication unit is a communication terminal.

8. Method according to claim 7, in which the second communication unit is a mobile radio communication terminal.

9. Method according to one of the claims 1 to 8, in which the communication configuration data is encoded according to a protocol format of a protocol for configuring a communication terminal.

10. Method according to claim 9, in which the communication configuration data is encoded according to a protocol format of a protocol for dynamically configuring a communication terminal.

11. Method according to claim 10, in which the communication configuration data is encoded

according to a dynamic host configuration protocol for dynamically configuring a communication terminal.

12. Method for encrypting an encrypted message containing communication configuration data,

- in which an Internet-based authentication method is executed by using at least one service from a unit in a security layer or link control layer between a first communication unit and a second communication unit, so that at least one pair of cryptographic keys is formed for the first communication unit and for the second communication unit,
- in which communication configuration data of the second communication unit is determined by using at least one cryptographic key of the at least one pair of cryptographic keys to decrypt the encrypted message containing the communication configuration data.

13. Device for forming an encrypted message, said encrypted message containing communication configuration data,

- having a key generation unit which is able to execute an Internet-based authentication method by using at least one service from a unit in a security layer between a first communication unit and a second communication unit, so that at least one pair of cryptographic keys is formed for the first communication unit and for the second communication unit,
- having an encryption unit which is able to encrypt the communication configuration data by using at least one cryptographic key of the at least one pair of cryptographic keys, thus forming the encrypted message.

14. Device for encrypting an encrypted message, said encrypted

message containing communication configuration data,

- having a key generation unit which is able to execute an Internet-based authentication method by using at least one service from a unit in a security layer between a first communication unit and a second communication unit, so that at least one pair of cryptographic keys is formed for the first communication unit and for the second communication unit,
- having a decryption unit which is able to decrypt the communication configuration data of the second communication unit by using at least one cryptographic key of the at least one pair of cryptographic keys in decrypting the encrypted message containing said communication configuration data.